

Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS

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Motor type / Motor type : 1CV4162A

SIMOTICS SD - 160 M - IM B3 - 2p

Client order no. / Client order no.	Item-No. / Item-No.	Offer no. / Offer no.
Order no. / Order no.	Consignment no. / Consignment no.	Project / Project

Remarks / Remarks

Safe Area

-/-

Electrical data / Electrical data

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η ³⁾			$\cos\phi$ ³⁾			I_A/I_N I_f/I_N	M_A/M_N T_f/T_N	M_K/M_N T_B/T_N	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4				
DOL duty (S1) / DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	11.00	-/-	19.10	2955	35.5	92.6	92.8	92.0	0.90	0.87	0.80	8.6	2.8	4.2	IE4
690	Y	50	11.00	-/-	11.00	2955	35.5	92.6	92.8	92.0	0.90	0.87	0.80	8.6	2.8	4.2	IE4
460	Δ	60	12.60	-/-	19.00	3555	34.0	92.4	92.3	91.0	0.90	0.87	0.81	8.6	2.9	4.1	IE4
460	Δ	60	11.00	-/-	16.80	3560	29.5	92.4	91.9	90.3	0.89	0.86	0.78	9.8	3.3	4.8	IE4
IM B3 / IM 1001		FS 160 M		IP55		UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

Environmental conditions / Environmental conditions : -20 °C - +40 °C / 1000 m Locked rotor time (hot / cold) / Locked rotor time (hot / cold) : 31.6 s | 40.4 s

Mechanical data / Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz Sound level (SPL / SWL) at 50Hz 60Hz	74 / 87 dB(A) ^{2) 3)}	79 / 92 dB(A) ^{2) 3)}	External earthing terminal External earthing terminal	Without Without
Moment of inertia Moment of inertia	0.0610 kg m ²		Vibration severity grade Vibration severity grade	A A
Bearing DE NDE Bearing DE NDE	6309 Z C3	6309 Z C3	Thermal class Thermal class	F F
bearing lifetime / bearing lifetime			Duty type Duty type	S1
L_{10mh} , $F_{Rad min}$ for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Direction of rotation Direction of rotation	bidirectional bidirectional
L_{10mh} , $F_{Rad min}$ for coupling operation 50 60Hz ¹⁾			Frame material Frame material	cast iron cast iron
Relubrication interval/quantity DE NDE	10 g 10 g	8000 h	Net weight of the motor (IM B3) Net weight of the motor (IM B3)	113 kg
Relubrication interval/quantity DE NDE			Coating (paint finish) Coating (paint finish)	Special paint finish C3 Special paint finish C3
Lubricants Lubricants	Unirex N3		Color, paint shade Color, paint shade	RAL7030
Regreasing device Regreasing device	With (standard) With (standard)		Motor protection Motor protection	(B) 3 PTC thermistors - for tripping (standard) (2 terminals) (B) 3 PTC thermistors - for tripping (standard) (2 terminals)
Grease nipple Grease nipple	M8x1 DIN 71412		Method of cooling Method of cooling	IC411 - self ventilated, surface cooled IC411 - self ventilated, surface cooled
Type of bearing Type of bearing	Locating bearing NDE Locating bearing NDE			
Condensate drainage holes Condensate drainage holes	With (standard) With (standard)			

Terminal box / Terminal box

Terminal box position Terminal box position	top	Max. cross-sectional area Max. cross-sectional area	16 mm ²
Material of terminal box Material of terminal box	cast iron	Cable diameter from ... to ... Cable diameter from ... to ...	19 mm - 28 mm
Type of terminal box Type of terminal box	TB1 J01	Cable entry Cable entry	2xM40x1,5-1xM16x1,5
Contact screw thread Contact screw thread	M5	Cable gland Cable gland	3 plugs 3 plugs

Notes:

I_A/I_N = locked rotor current / current nominal 1) L_{10mh} according to DIN ISO 281 10/2010 3) Value is valid only for DOL operation with motor design IC411
 M_A/M_N = locked rotor torque / torque nominal 2) at rated power / at full load

responsible dep. IN LVM	technical reference	created by SPC	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.	Link documents
	document type datasheet	document status released			document number
	title 1LE1604-1DA23-4AB4-Z B02	rev. 953	creation date 2024-02-16		
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Special design / Special design

B02 Acceptance test certificate 3.1 acc. to EN 10204
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